§51.1552 Clean.

Clean means that at least 90 percent of the potatoes in any lot are practically free from dirt or staining and practically no loose dirt or other foreign matter is present in the container.

§51.1553 Fairly clean.

Fairly clean means that at least 90 percent of the potatoes in any lot are reasonably free from dirt or staining and not more than a slight amount of loose dirt or foreign matter is present in the container.

§51.1554 Mature.

Mature means that the skins of the potatoes are generally firmly set and not more than 5 percent of the potatoes in the lot have more than one-tenth of the skin missing or "feathered."

§51.1555 Fairly well matured.

Fairly well matured means that the skins of the potatoes are generally fairly firmly set and not more than 10 percent of the potatoes in the lot have more than one-fourth of the skin missing or "feathered."

§51.1556 Well shaped.

Well shaped means that the potato has the normal shape for the variety.

§51.1557 Fairly well shaped.

Fairly well shaped means that the potato is not materially pointed, dumbbell-shaped or otherwise materially deformed

§51.1558 Seriously misshapen.

Seriously misshapen means that the potato is seriously pointed, dumbell-shaped or otherwise badly deformed.

§51.1559 Injury.

Injury means any defect, or any combination of defects, which more than slightly detracts from the edible or marketing quality, or the internal or external appearance of the potato, or any internal defect outside of or nor entirely confined within the vascular ring which cannot be removed without a loss of more than 3 percent of the total weight of the potato.

§51.1560 Damage.

Damage means any defect, or any combination of defects, which materially detracts from the edible or marketing quality, or the internal or external appearance of the potato, or any external defect which cannot be removed without a loss of more than 5 percent of the total weight of the potato. See Tables III and IV.

§51.1561 Serious damage.

Serious damage means any defect, or any combination of defects, which seriously detracts from the edible or marketing quality, or the internal or external appearance of the potato, or any external defect which cannot be removed without a loss of more than 10 percent of the total weight of the potato. See Tables III and IV.

§51.1562 Freezing.

Freezing means that the potato is frozen or shows evidence of having been frozen

§51.1563 Soft rot or wet breakdown.

Soft rot or wet breakdown means any soft, mushy, or leaky condition of the tissue such as slimy soft rot, leak, or wet breakdown following freezing injury.

§51.1564 External defects.

External defects are defects which can be detected externally. However, cutting may be required to determine the extent of the injury. Some external defects are listed in Table III.

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TABLE III—EXTERNAL DEFECTS

TABLE III—EXTERNAL DEFECTS—Continued

Defect	Damage	Serious damage	Defect	Damage	Serious damage
Air Cracks	When removal causes a loss of more than 5 percent of the total weight of the potato or when the air crack(s) affects more than ½ the length or diameter of the potato (whichever is greater) in the aggregate.	When removal causes a loss of more than 10 per- cent of the total weight of the po- tato or when the air crack(s) affects more than 3/4 the length or diameter of the potato (whichever is greater) in the ag- gregate.	External Discoloration (Areas that are light tan or lighter in color and blends should be ignored).	When more than 30 percent of the surface is affected by light tan or light brown colors which do not blend or when more than 15 percent of the surface is affected by colors darker than light tan or light brown.	When more than 60 percent of the surface is affected by light tan or light brown colors which do not blend or when more than 30 percent of the surface is affected by colors darker than light tan or light brown.
Artificial Coloring.	When unsightly or when concealing any defect caus- ing damage or when penetrating the flesh and re- moval causes loss of more than 5 percent of total weight of potato.	When concealing a serious defect or when penetrating into the flesh and removal causes loss of more than 10 percent of total weight of potato.	Flattened or Depressed Areas/Pres- sure Bruises.	When removal of underlying discolored flesh causes a loss of more than 5 percent of the total weight of the potato or when the flattened or depressed area(s) covers	When removal of underlying discol- ored flesh the causes a loss of more than 10 per- cent of the weight of the potato or when the flattened depressed area(s) covers more sur-
Bruises (Not including pressure bruise and sunken discolored areas).	When removal causes a loss of more than 5 percent of the total weight of the potato or when the area affected is more than 5 percent of the surface in the aggregate (i.e., ¾ inch on a 6 oz. potato). Correspondingly lesser or greater areas in smaller or larger areas. When one smooth	When the removal causes a loss of more than 10 percent of the total weight of the potato or when the area affected is more than 10 percent of the surface in the aggregate (i.e., 11/4 inches on a 21/2 inch or 6 oz. potato). Correspondingly lesser or greater areas in smaller or larger potatoes. Cut(s) that affect	Flea Beetle Injury.	more surface area than allowed in Table IV. (See Table IV.). When materially detracting from the appearance or when removal causes a loss of more than 5 percent of the total weight of the potato or when the area affected is more than 5 percent of the surface in the aggregate. When removal	face area than allowed in the Table IV. (See Table IV.) When seriously detracting from the appearance of the potato or when removal causes a loss of more than 10 percent of the weight of the potato or when the area affected is more than 10 percent of the surface in the aggregate. When removal
Dirt	cut affects more than 5 percent of the surface area.	more than 10 percent of the surface area in the aggregate or when a single side cut extends beyond ½ the length of the potato. When seriously de-	J. J	causes a loss of more than 5 per- cent of the total weight of the po- tato or when green color affects more than 25 per- cent of the surface in the aggregate.	causes a loss of more than 10 per- cent of the weight of the potato or when green color affects more than 50 percent of the surface in the ag- gregate.
	tracting from the appearance of the potato.	tracting from the appearance of the potato.	Growth Cracks	When the growth crack(s) affects more than ½ the	When the growth crack(s) affects more than 3/4 the
Elephant Hide	When affecting over 10 percent of the surface area of the potato.	When affecting over 25 percent of the surface area.		length of the po- tato in the aggre- gate on round va- rieties or more	length of the po- tato in the aggre- gate or when the depth is greater
Enlarged Lenticels.	When materially detracting from the appearance of the potato.	When seriously de- tracting from the appearance of the potato.		than ½ the length in the aggregate on long varieties; or, when the depth is greater than that as outlined in Table V. (See Table V.).	than that as out- lined in Table V. (<i>See</i> Table V.).

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TABLE III—EXTERNAL DEFECTS—Continued

TABLE III—EXTERNAL DEFECTS—Continued

Defect	Damage	Serious damage	Defect	Damage	Serious damage
Grub Damage	When removal causes a loss of more than 5 per- cent of the total weight of the po- tato or when af- fecting more than 5 percent of the	When removal causes a loss of more than 10 per- cent of the total weight of the po- tato or when af- fecting more than 10 percent of the	Scab, Russet	Smooth and affect- ing more than ½ of the surface or rough russet scab which affects more than 10 per- cent of the surface in the aggregate.	Rough and affecting more than 25 per- cent of the surface in the aggregate.
	surface area (i.e. more than ¾ inch on a 2½ inch or 6 ounce potato). Correspondingly lesser or greater	surface area (i.e. more than 11/4 inch on a 21/2 inch or 6 ounce potato). Correspondingly lesser or	Scab, Surface Second Growth	When more than 5 percent of the sur- face in the aggre- gate is affected. When materially de-	When more than 25 percent of the surface in the aggregate is affected. When seriously de-
	areas in smaller or larger potatoes.	greater areas in smaller or larger potatoes.		tracting from the appearance of the potato.	tracting from the appearance of the potato.
Insects or Worms. Nematode (Root Knot).	(See Serious Damage.). When removal causes loss of more than 5 percent of total	When present inside the potato. When removal causes loss of more than 10 per- cent of total	Silver Scurf Sprouts	When affecting more than 50 percent of the surface area of the potato. When more than 5	When its severity causes a wrinkling of the skin over more than 50 per- cent of the sur- face. When more than 10
Rhizoctonia	weight of potato. When affecting more than 15 percent of the surface in the aggregate.	weight of potato. When affecting more than 50 percent of the surface in the aggregate.	Cprode	percent of the po- tatoes in a lot have sprouts in clusters or any in-	percent of the po- tatoes in a lot have sprouts in clusters or any in-
Russeting (On Non Russet Type).	When more than 50 percent of the surface is affected in the aggregate.	N/A.		dividual sprout more than 1/4 inch in length at ship- ping point and 1/2 inch in length at	dividual sprout more than ½ inch in length at ship- ping point and 1 inch in length at
Rodent or Bird Damage.	When removal causes a loss of more than 5 percent of the total weight of the potato or when affecting more than 5 percent of the surface area (i.e.	When removal causes a loss of more than 10 percent of the total weight of the potato or when affecting more than 10 percent of the surface area (i.e.	Sunburn Sunken Discolored Areas.	destination. When removal causes loss of more than 5 per- cent of total weight of potato. SEE TABLE VI	destination. When removal causes loss more than 10 percent of total weight of po- tato. SEE TABLE VI.
	more than 34 inch on a 2½ inch or 6 ounce potato). Correspondingly lesser or greater areas in smaller or larger potatoes.	more than 11/4 inch on a 2½ inch or 6 ounce po- tato). Correspond- ingly lesser or greater areas in smaller or larger potatoes.	Surface Cracks (Areas affected by fine net-like cracking should be ig- nored.).	When smooth shal- low cracking af- fects more than ½ of the surface or when rough deep cracking affects more than 5 per- cent of the surface.	When rough deep cracking affects more than 10 per- cent of the sur- face.
Scab, Pitted	When removal causes a loss of more than 5 per- cent of the total weight of the po- tato or when scab affects an aggre-	When the removal causes a loss of more than 10 per- cent of the total weight of the po- tato or when scab affects an aggre-	Wireworm or Grass Dam- age.	When affecting the flesh of the potato and removal causes loss of more than 5 percent of total weight of potato	When affecting the flesh of the potato and removal causes loss of more than 10 percent of total weight of potato.
	gate area of more than ½ inch. (Based on a potato 2½ inches in diameter or 6 oz. in weight.) Correspondingly lesser or greater areas in smaller or larger potatoes.	gate area of more than 1 inch. (Based on a potato 2½ inches in diameter or 6 oz. in weight.) Correspondingly lesser or greater areas in smaller or larger potatoes.	present in any d	defects are considered egree: 1. Freezing. 2. L erial wilt. 5. Soft rot. 6.	ate blight. 3. Ring rot.

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TABLE IV—FLATTENED OR DEPRESSED AREAS—PRESSURE BRUISES MAXIMUM AREA ALLOWED

Diameter	Weight	No. 1 (aggregate area)	No. 2 (aggregate area)
Potato is: Less than 2 in 2 to 2½ in More than 2½ to 3 in More than 3 to 3½ in More than 3½ to 4 in More than 4½ to 4½ in More than 4½ to 5 in More than 5 in	Potato is: Less than 4 oz 4 to 6 oz More than 6 to 8 oz More than 8 to 14 oz More than 14 to 20 oz More than 20 to 28 oz More than 28 to 36 oz More than 36 oz	Not more than: 1/2 in	Not more than: 1 in 11/2 in 11/3 in 13/4 in 17/6 in 2 in 21/4 in 23/4 in 31/4 in

TABLE V—DEPTH ALLOWED FOR GROWTH CRACKS

Diameter	Weight	No. 1 (depth)	No. 2 (depth)
Potato is: Less than 2 in 2 to 2½ in More than 2½ to 3 in More than 3 in	Potato is: Less than 4 oz 4 oz to 6 oz More than 6 oz to 8 oz More than 8 oz	Not more than: 1/8 in 1/4 in 3/8 in 1/2 in	

TABLE VI—SUNKEN DISCOLORED AREAS MAXIMUM AREA ALLOWED

Diameter	Weight	No. 1 (aggregate area)	No. 2 (aggregate area)
Potato is: Less than 2 in 2 to 2½ in More than 2½ to 3 in More than 3 to 3½ in More than 3½ to 4 in More than 4 to 4½ in More than 4½ to 5 in More than 5 in	Potato is: Less than 4 oz 4 to 6 oz More than 6 to 8 oz More than 8 to 14 oz More than 14 to 20 oz More than 20 to 28 oz More than 28 to 36 oz More than 36 oz	Not more than: % in	Not more than: 3/4 in 1 in 1 1/4 in 11/2 in 13/4 in 2 in 21/4 in 21/2 in

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§51.1565 Internal defects.

Internal defects are defects which cannot be detected without cutting the potato. Some internal defects are listed in Table IV.

TABLE VII—INTERNAL DEFECTS

Defects	Damage maximum allowed	Serious damage maximum allowed		
Occurring outside of or not entirely confined to the vascular ring				
Ingrown Sprouts, Internal Discoloration, Vascular Browning, Fusarium Wilt, Net Necrosis, Other Necrosis, Stem End Browning.	5 percent waste	10 percent waste.		

TABLE VII—INTERNAL DEFECTS—Continued

Defects	Damage maximum allowed	Serious damage maximum allowed	
Internal Black Spot.	When the spot(s) are darker than the official color chip (POT–CC–2) after removing 5 percent of the total weight of the potato.	When the spot(s) are darker than the official color chip (POT–CC–2) after removing 10 percent of the total weight of the potato.	
Occurring entirely within the vascular ring			
Hollow Heart or Hollow Heart with Discol- oration.	Area affected not to exceed that of a circle ½ inch in diameter in a potato 2½—inches in diameter or 6 ounces in weight.¹	Area affected not to exceed that of a circle ¾ inch in diameter in a potato 2½—inches in diameter or 6 ounces in weight.¹	